

Veranstaltungsort:

Hanse-Wissenschaftskolleg  
Lehmkuhlenbusch 4  
27753 Delmenhorst

Hanse



Wissenschaftskolleg



# PROGRAMME

## **International Workshop Neuro-cognitive mechanisms of conscious and unconscious visual perception**

**Delmenhorst, May 19 – 21, 2010**

**Organizers:**

Research network „Neuro-cognitive mechanisms of conscious and unconscious visual perception”

PD Dr. Markus Kiefer, Universität Ulm

Prof. Dr. Michael Niedeggen, Freie Universität Berlin

Prof. Dr. John Dylan Haynes,

Bernstein Center for Computational Neuroscience, Berlin

## Wednesday, May 19, 2010

**12:00 – 13:30**      **Registration and Lunch**

13:30                Welcome Addresses

### **Part 1: Attention and Consciousness**

**Chair: John-Dylan Haynes**

14:00 – 14:35      Ulrich Ansorge, University of Vienna, Austria

*Attentional capture by masked colour stimuli*

14:35 – 15:10      Pascal Fries, Ernst Strüngmann Institute, Frankfurt, Germany

*Attention modulates brain wide functional connectivity assessed through 252 channel monkey electrocorticography*

15:10 – 15:45      Bruno Breitmeyer & Evelina Tapia, University of Houston, USA

*Contour and surface processing and the microgenesis of object perception, visual attention, and visual consciousness*

**15:45 – 16:15**      **Coffee Break**

### **Part 1: (continued)**

**Chair: Markus Kiefer**

16:15 – 16:50      Michael Niedeggen, Free University Berlin, Germany

*Distracter-induced blindness depends on the state of a frontal suppression system*

16:50 – 17:25      Bettina Rolke, Karin M. Bausenhardt & Verena C. Seibold, University of Tübingen, Germany

*The effect of temporal attention on stimulus processing*

17:25 – 18:00      Rolf Verleger & Kamila Smigasiewicz, University of Lübeck, Germany

*On the left-hemifield / right-hemisphere advantage in the dual RSVP task: Testing its generality in intercultural, TMS, and ERP studies*

**18:00**                **Conference Dinner**

## Thursday, May 20, 2010

### **Part 2: Mechanisms of Unconscious Perception**

**Chair: Fred Hamker**

08:30 – 09:05 Uwe Mattler & Robert Fendrich, University of Göttingen, Germany  
*How unconscious stimulus attributes contribute to the generation of a conscious experience of motion*

09:05 – 09:40 Stanislas Dehaene, Le Collège de France, Paris, France  
*Evidence accumulation in non-conscious and conscious processing*

09:40 – 10:15 Friederike Schlaghecken, Elizabeth A. Maylor, & Paolo Martini,  
University of Warwick, United Kingdom  
*High-level and low-level factors in motor control*

**10:15 – 10:50** **Coffee Break**

### **Part 2: (continued)**

**Chair: Ulrich Ansorge**

10:50 – 11:25 Fred Hamker, Chemnitz University of Technology, Germany  
*Computational mechanisms of top-down control in visual perception*

11:25 – 12:00 John-Dylan Haynes, Bernstein Center for Computational Neuroscience,  
Berlin, Germany  
*Decoding two modes of perceptual decision making with and without awareness*

**12:00 – 12:45** **Lunch**

12:45 – 14:15 Poster Session 1

### **Part 3: Impaired Visual Awareness after Brain Damage**

**Chair: Rolf Verleger**

14:15 – 14:50 Hans-Otto Karnath, University of Tübingen, Germany  
*Neural structures involved in visual recognition and perception – contributions from stroke patients*

14.50 – 15:25 Beatrice de Gelder, Tilburg University, Netherlands  
*Minimal consciousness: what you see is what you feel*

15:25 – 16:00 Arash Sahraie, University of Aberdeen, United Kingdom  
*Blindsight: bridging the gap between human and animal models, and its implications for visual rehabilitation after brain injury*

**16:00 – 16:30** **Coffee Break**

16:30 – 18:00 Poster Session 2

**Evening free for individual activities**

**Friday, May 21, 2010**

**Part 4: Memory, Cognitive Control, and Consciousness**

**Chair: Uwe Mattler**

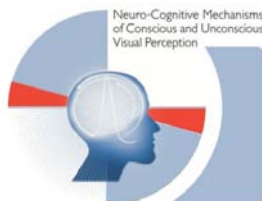
- 08:30 – 09:05 Hermann J. Müller & Thomas Geyer, Ludwig-Maximilians-Universität Munich, Germany  
*Implicit versus explicit memory in contextual cueing of visual search*
- 09:05 – 09:40 Catherine Tallon-Baudry, Hôpital Pitié-Salpêtrière, Paris, France  
*The links between attention and awareness*
- 09:40 – 10:15 Wilfried Kunde<sup>1</sup>, Andrea Kiesel<sup>2</sup>, Alexander Heinemann<sup>1</sup>, & Heiko Reuss<sup>2</sup>, <sup>1</sup>Technical University of Dortmund, Germany, <sup>2</sup>University of Würzburg, Germany  
*Consciousness and control*
- 10:15 – 10:50** **Coffee Break**

**Part 4: (continued)**

**Chair: Michael Niedeggen**

- 10:50 – 11:25 Markus Kiefer, University of Ulm, Ulm, Germany  
*Attentional sensitization of unconscious cognition*
- 11:25 – 12:00 Christof Koch, California Institute of Technology, Pasadena, USA  
*Consciousness and attention are different biological processes*
- 12:00 – 12:15 Concluding Remarks
- 12:15 – 13:00** **Lunch**
- Departure**

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